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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,111	05/11/2006	Janine T. Bryan	21561P	3681
MERCK AND	7590 09/19/200 CO., INC	EXAMINER		
PO BOX 2000		SALIMI, ALI REZA		
RAHWAY, NJ 07065-0907			ART UNIT	PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			09/19/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/579,111	BRYAN ET AL.		
Office Action Summary	Examiner	Art Unit		
	A R. Salimi	1648		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING I  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>05.</u> This action is <b>FINAL</b> . 2b) ☐ The 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4)  Claim(s) 1-25 and 29 is/are pending in the ap 4a) Of the above claim(s) 10-25 and 29 is/are 5)  Claim(s) is/are allowed.  6)  Claim(s) 1-9 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/  Application Papers  9)  The specification is objected to by the Examination of the drawing(s) filed on 11 May 2006 is/are: a	withdrawn from consideration.  for election requirement.	by the Examiner.		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 5/11/06.	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal F 6)  Other:	ate		

Claims 1-25 and 29 are pending.

Raw Sequence Listing have been entered.

Submitted Information Disclosure Statement (I.D.S) is noted.

Election/Restriction

Applicant's election with traverse of Group I in Paper filed 05/05/2008 is acknowledged.

The traversal is on the ground(s) that the subject matters of Groups I, and II should be examined

together. Upon reconsideration, Applicants' argument is persuasive regarding rejoinder of

Groups I-II. Hence, claims 1-9 have been rejoined.

However, regarding the Groups III-V (10-25, and 29) the restriction is still deemed valid

under PCT Rule 13.2. This portion of the requirement is still deemed proper and is therefore

made FINAL.

Applicants are reminded to cancel the claims to the non-elected claims. Claims 1-9 are

considered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing

to particularly point out and distinctly claim the subject matter which applicant regards as the

invention. The intended metes and bounds of the claimed invention are not defined. The claim

is vague and indefinite for recitation of "comprising" limitation. Amending the claim to

"consisting" would obviate this rejection. This affects the dependent claims 2-9.

## Subject Matter Allowable over Prior art

Claims 1-9 are deemed free of prior art, given failure of the prior art to teach or reasonably suggest the codon-optimized nucleotides of HPV-58 as defined SEQ ID NO: 1. The closest prior art identified is by Sette et al (US Pub. 2007/0053922). Sette et al taught the a polypeptide defined under the sequence identification number SEQ ID NO: 60, which incidentally is longer than SEQ ID NO: 2 and has only 90% identity to SEQ ID NO: 2. Sette et al did not, disclose the nucleic acid of codon-modified HPV-58 L1 of SEQ ID NO: 1, and there is no teaching of expression of SEQ ID NO: 1 in yeast cell in general, or *Saccharomyces cervisiae* in particular. Sette et al never disclosed the codon-optimized protein or nucleic acid of codon modified HPV-58 L1 as defined by SEQ ID NO: 1.

No claims are allowed.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. R. Salimi whose telephone number is (571) 272-0909. The examiner can normally be reached on Monday-Friday from 9:00 Am to 6:00 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell, can be reached on (571) 272-0974. The Official fax number is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.

Application/Control Number: 10/579,111

Art Unit: 1648

Information regarding the status of an application may be obtained from the Patent Application

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PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/A R Salimi/

Primary Examiner, Art Unit 1648

08/28/2008